SRS-67

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model

LEFT SPEAKER

RIGHT SPEAKER

SONY
POWER
VOLUME
SRS-67

SPECIFICATION

Power output	5 W + 5 W with the internal batteries
Input	Speaker cord equipped with stereo miniplug (1.5 m)
Input impedance	150 ohms (at 1 kHz, with the ON/OFF DIRECT selector set to OFF DIRECT)
Output	Minijack

Speaker section

System	Full-range, bass-reflex enclosure type
Speaker unit	Full range: ø65 mm (ø2$^{5}/_{8}$ inches)
Input impedance	8 ohms
Power handling capacity	Nominal 5 W (with the ON/OFF DIRECT selector set to OFF DIRECT)

General

Power requirements	
External power requirements	DC IN 9 V jack accepts the supplied Sony AC power adaptor.
Internal power requirements	DC 9 V, six R14 (size C) batteries per speaker
Battery life (at 50 mW + 50 mW output)	Approx. 30 hours with Sony batteries SUM-2 (NS) Approx. 60 hours with Sony alkaline batteries AM2 (N)
Dimensions	Approx. 184 × 122 × 136 mm (w/h/d) (7$^{1}/_{10}$ × 4$^{7}/_{8}$ × 5$^{1}/_{3}$ inches) incl. projecting parts and controls
Weight	Approx. 900 g (2 lb.) per speaker, not incl. batteries or other accessories
Supplied accessories	AC power adaptor (1) AC plug adaptor (1, E model only) Plug adaptor (1) Rubber cushions (4)

Design and specifications subject to change without notice.

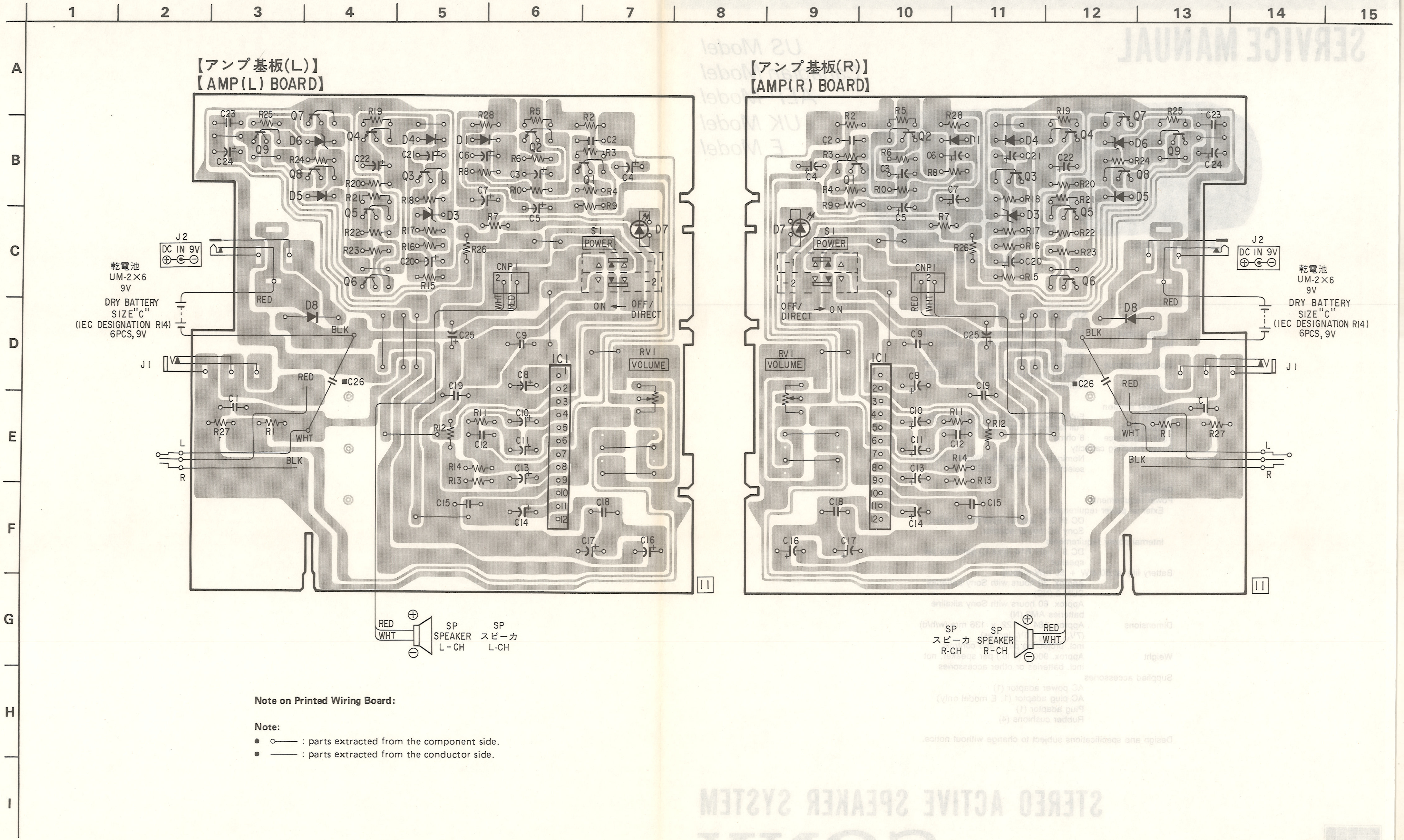
STEREO ACTIVE SPEAKER SYSTEM

MICROFILM

SONY®

SECTION 1
DIAGRAMS

1-1. PRINTED WIRING BOARD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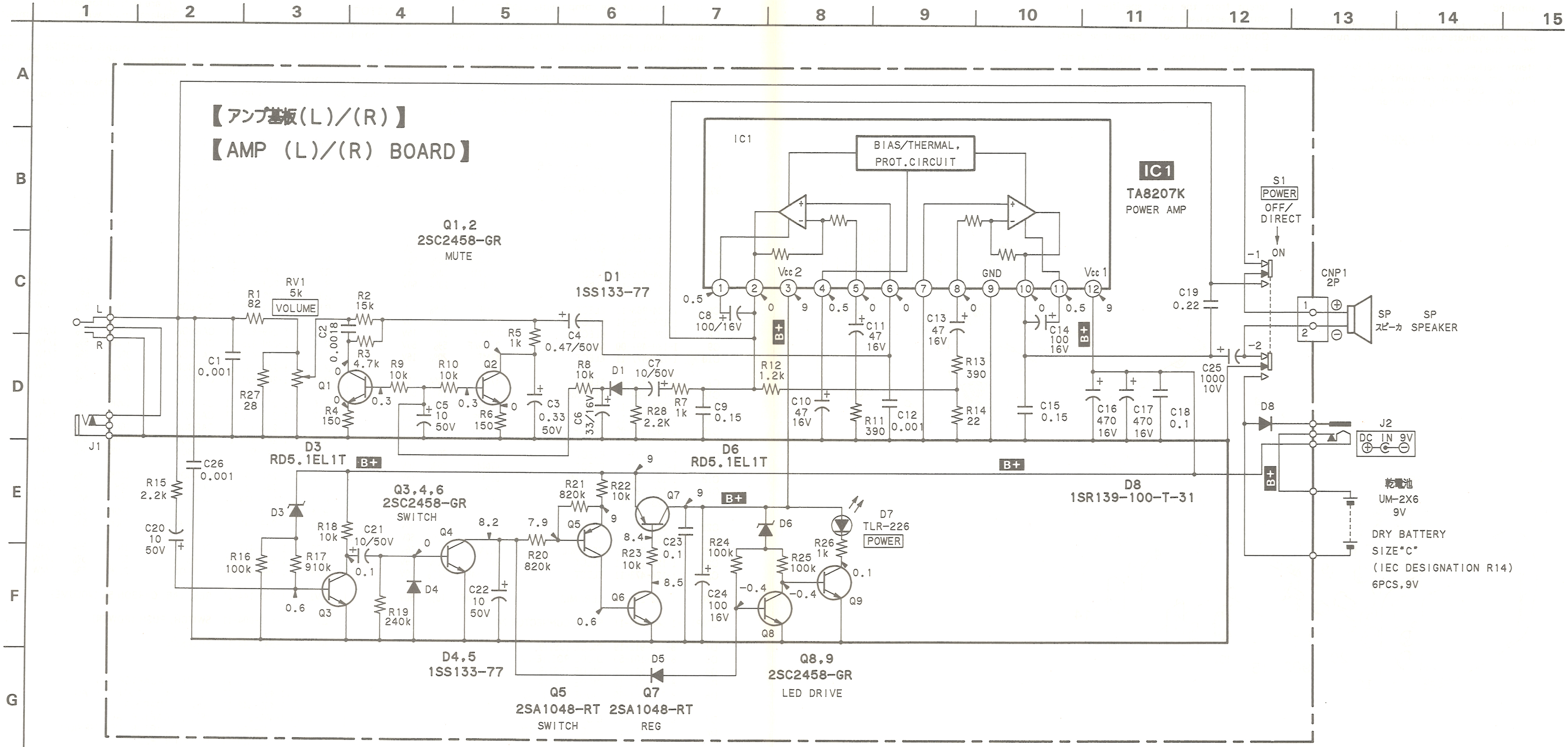
H
I
【アンプ基板(L)】
【AMP(L) BOARD】
C23
R25
Q7
R19
R28
R5
R2
C24
Q9
D6
Q4
D4
D1
Q2
C2
R24
C22
C21
C6
R6
R3
Q8
Q3
R8
C3
Q1
C4
D5
R20
R10
R4
R21
R18
C7
R9
Q5
D3
R7
C5
R22
R17
S1
D7
R23
R16
R26
POWER
J2
DC IN 9V
C20
CNP1
R15
Q6
乾電池
UM-2×6
9V
DRY BATTERY
SIZE "C"
(IEC DESIGNATION R14)
6PCS, 9V
RED
D8
WHT
RED
ON
OFF/
DIRECT
BLK
C25
C9
J1
RV1
VOLUME
IC1
RED
C26
C8
C19
C1
R11
C10
R27
R1
R12
WHT
C12
C11
L
BLK
R14
C13
R
R13
C15
C18
C14
C17
C16
RED
WHT
SP
SPEAKER
L-CH
SP
スピーカ
L-CH
【アンプ基板(R)】
【AMP(R) BOARD】
R-CH
R-CH

Note on Printed Wiring Board:

Note:

- ○—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.

1-2. SCHEMATIC DIAGRAM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12
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A
B
C
D
E
F
G
【アンプ基板(L)/(R)】
【AMP (L)/(R) BOARD】
IC1
BIAS/THERMAL, PROT.CIRCUIT
IC1
TA8207K
POWER AMP
Q1,2
2SC2458-GR
MUTE
D1
1SS133-77
RV1 5k VOLUME
R1 82
R2 15k
R3 4.7k
C2 0.0018
C1 0.001
R27 28
R4 150
R9 10k
R10 10k
R5 1k
R6 150
C5 10 50V
C3 0.33 50V
C4 0.47/50V
R8 10k
C6 33/16V
C7 10/50V
R28 2.2k
R7 1k
C9 0.15
R12 1.2k
C8 100/16V
C10 47 16V
R11 390
C11 47 16V
C12 0.001
C13 47 16V
R13 390
R14 22
C14 100 16V
C15 0.15
C16 470 16V
C17 470 16V
C18 0.1
C19 0.22
C25 1000 10V
Vcc2
GND
Vcc1
B+
S1 POWER OFF/ DIRECT ON
CNP1 2P
SP スピーカ SPEAKER
D8
J2 DC IN 9V
J1
L
R
D3 RD5.1EL1T
D6 RD5.1EL1T
D8 1SR139-100-T-31
C26 0.001
R15 2.2k
C20 10 50V
R16 100k
R17 910k
R18 10k
C21 10/50V
Q3,4,6
2SC2458-GR
SWITCH
D4
C22 10 50V
R19 240k
R20 820k
R21 820k
R22 10k
Q5
Q7
C23 0.1
R23 10k
Q6
R24 100k
C24 100 16V
R25 100k
R26 1k
D7 TLR-226 POWER
Q8
Q9
D5
D4,5
1SS133-77
Q5
2SA1048-RT
SWITCH
Q7
2SA1048-RT
REG
Q8,9
2SC2458-GR
LED DRIVE
乾電池
UM-2X6
9V
DRY BATTERY
SIZE"C"
(IEC DESIGNATION R14)
6PCS,9V

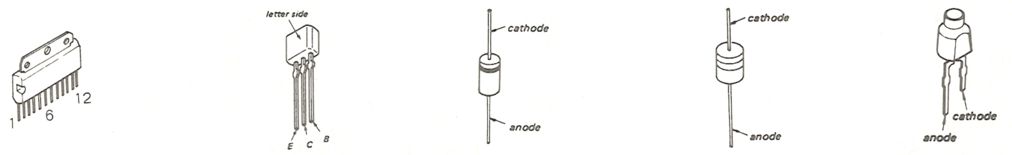
Note on Schematic Diagram:

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- Power voltage is dc 9V and fed with regulated dc power supply from battery terminal.
- Voltage is dc with respect to ground under no-signal condition. Short between base of Q5 and ground to stop AUTO ON/OFF circuit from operating when measuring voltages.
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

● Semiconductor Leard Layout

TA8207K	2SA1175-HFE 2SC2785-HFE	RD5.1E-L2	1SR139-100 1SS119	TLR226

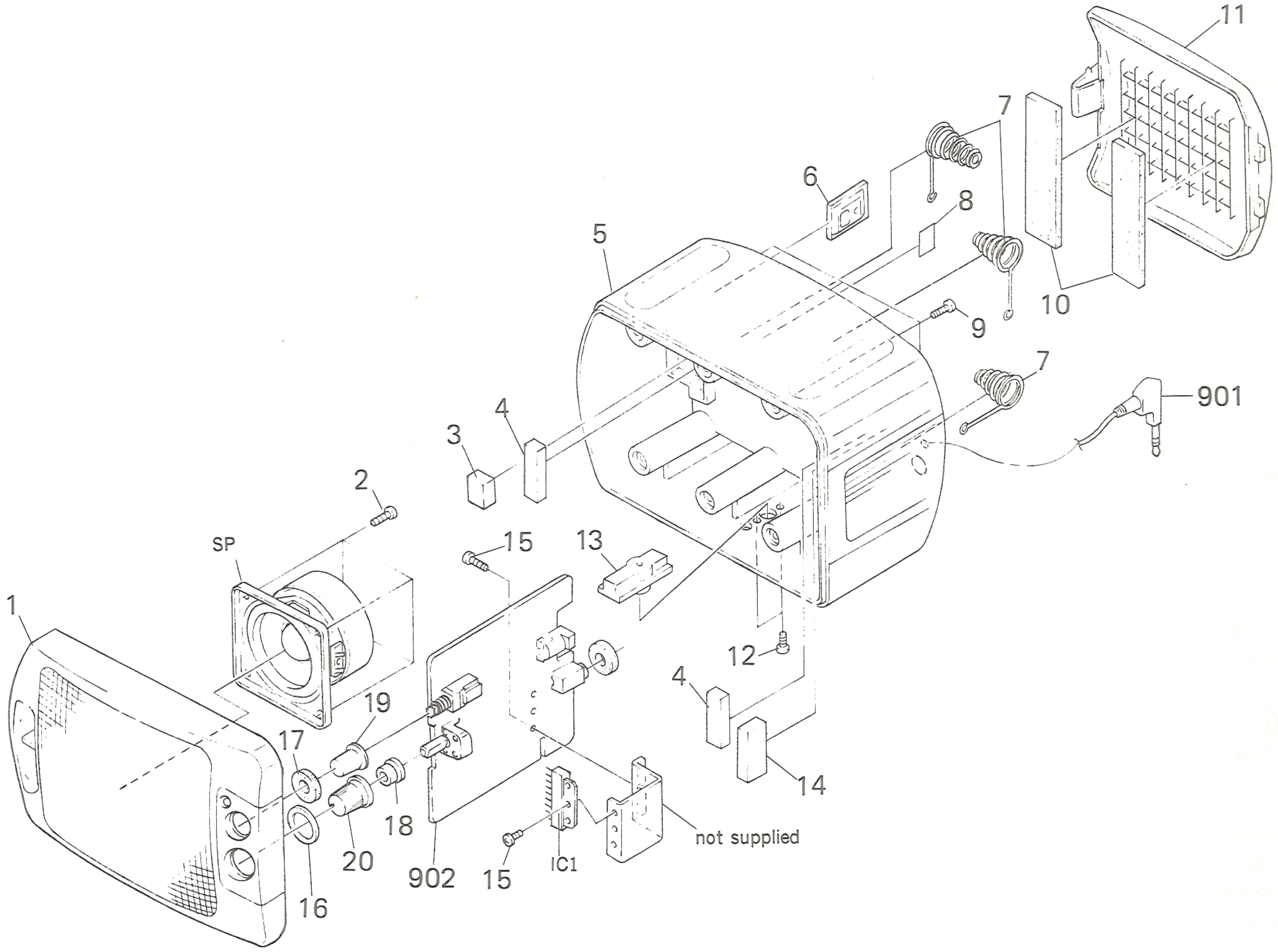

1
6
12
letter side
E
C
B
cathode
anode
cathode
anode
cathode
anode

SECTION 2
EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

ILLUST : LEFT SPEAKER



Ref.No	Part No.	Description	Remark
1	X-2125-222-1	PANEL (R) ASSY, FRONT	
1	X-2125-223-1	PANEL (L) ASSY, FRONT	
2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
3	9-911-845-XX	SHEET (B), BLIND	
4	9-911-845-XX	SHEET (A), BLIND	
5	2-141-223-01	CABINET (REAR) (L)	
5	2-141-224-01	CABINET (REAR) (R)	
6	3-894-933-01	TERMINAL, + BATTERY	
7	3-894-904-01	TERMINAL, BATTERY	
8	*3-332-189-01	SPACER (A)	
9	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
10	9-911-815-03	CUSHION (BATTERY)	
11	2-141-220-01	LID, BATTERY CASE	
12	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
13	2-141-215-01	SCREW, TRIPOD	
14	9-911-846-XX	SHEET (C), BLIND	
15	7-685-144-19	SCREW +P 3X5 TYPE2 NON-SLIT	
16	*3-831-441-XX	CUSHION (VOL)	
17	*2-141-251-01	CUSHION (AIR)	
18	*2-141-216-01	SPACER (VOL)	
19	2-141-218-01	BUTTON (PUSH)	
20	2-141-213-01	KNOB (VOLUME R)	
20	2-141-214-01	KNOB (VOLUME L)	
901	1-559-892-11	CORD (WITH PLUG)	
902	*A-4518-387-A	MOUNTED PCB (L), AMPLIFIER	
902	*A-4518-388-A	MOUNTED PCB (R), AMPLIFIER	
SP	1-544-244-11	SPEAKER	
IC1	8-759-230-13	IC TA8207K	

SECTION 3
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description			Remark
901	1-559-892-11	CORD (WITH PLUG)			
902	*A-4518-387-A	MOUNTED PCB (L), AMPLIFIER			
902	*A-4518-388-A	MOUNTED PCB (R), AMPLIFIER			
		CAPACITOR			
C1	1-162-294-31	CERAMIC	0.001MF	10%	50V
C2	1-130-474-00	MYLAR	0.0018MF	5%	50V
C3	1-124-252-00	ELECT	0.33MF	20%	50V
C4	1-124-465-00	ELECT	0.47MF	20%	50V
C5	1-123-875-11	ELECT	10MF	20%	50V
C6	1-124-963-11	ELECT	33MF	20%	16V
C7	1-123-875-11	ELECT	10MF	20%	50V
C8	1-126-101-11	ELECT	100MF	20%	16V
C9	1-130-497-00	MYLAR	0.15MF	5%	50V
C10	1-124-477-11	ELECT	47MF	20%	16V
C11	1-124-477-11	ELECT	47MF	20%	16V
C12	1-162-294-31	CERAMIC	0.001MF	10%	50V
C13	1-124-477-11	ELECT	47MF	20%	16V
C14	1-126-101-11	ELECT	100MF	20%	16V
C15	1-130-497-00	MYLAR	0.15MF	5%	50V
C16	1-126-103-11	ELECT	470MF	20%	16V
C17	1-126-103-11	ELECT	470MF	20%	16V
C18	1-162-851-11	CERAMIC	0.1MF		16V
C19	1-130-499-00	MYLAR	0.22MF	5%	50V
C20	1-123-875-11	ELECT	10MF	20%	50V
C21	1-123-875-11	ELECT	10MF	20%	50V
C22	1-123-875-11	ELECT	10MF	20%	50V
C23	1-162-851-11	CERAMIC	0.1MF		16V
C24	1-126-101-11	ELECT	100MF	20%	16V
C25	1-124-473-11	ELECT	1000MF	20%	10V
C26	1-162-294-31	CERAMIC	0.001MF	10%	50V
CNP1	*1-564-505-11	PLUG, CONNECTOR 2P			
D1	8-719-911-19	DIODE 1SS119			
D3	8-719-101-50	DIODE RD5.1E-L2			
D4	8-719-911-19	DIODE 1SS119			
D5	8-719-911-19	DIODE 1SS119			
D6	8-719-101-50	DIODE RD5.1E-L2			
D7	8-719-812-26	DIODE TLR226			
D8	8-719-974-59	DIODE 1SR139-100			
IC1	8-759-230-13	IC TA8207K			
J1	1-507-777-00	JACK, SMALL TYPE			
J2	1-507-563-00	JACK, DC (DC IN 9V)			
Q1	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q2	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q3	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q4	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q5	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q6	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q7	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q8	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q9	8-729-119-78	TRANSISTOR 2SC2785-HFE			

Ref.No	Part No.	Description			Remark
		RESISTOR			
R1	1-249-404-00	CARBON	82	5%	1/4W
R2	1-249-431-11	CARBON	15K	5%	1/4W
R3	1-249-425-11	CARBON	4.7K	5%	1/4W
R4	1-249-407-11	CARBON	150	5%	1/4W
R5	1-249-417-11	CARBON	1K	5%	1/4W
R6	1-249-407-11	CARBON	150	5%	1/4W
R7	1-249-417-11	CARBON	1K	5%	1/4W
R8	1-249-429-11	CARBON	10K	5%	1/4W
R9	1-249-429-11	CARBON	10K	5%	1/4W
R10	1-249-429-11	CARBON	10K	5%	1/4W
R11	1-249-412-11	CARBON	390	5%	1/4W
R12	1-249-418-11	CARBON	1.2K	5%	1/4W
R13	1-249-412-11	CARBON	390	5%	1/4W
R14	1-249-397-11	CARBON	22	5%	1/4W
R15	1-249-421-11	CARBON	2.2K	5%	1/4W
R16	1-249-441-11	CARBON	100K	5%	1/4W
R17	1-247-902-11	CARBON	910K	5%	1/4W
R18	1-249-429-11	CARBON	10K	5%	1/4W
R19	1-247-888-11	CARBON	240K	5%	1/4W
R20	1-247-901-11	CARBON	820K	5%	1/4W
R21	1-247-901-11	CARBON	820K	5%	1/4W
R22	1-249-429-11	CARBON	10K	5%	1/4W
R23	1-249-429-11	CARBON	10K	5%	1/4W
R24	1-249-441-11	CARBON	100K	5%	1/4W
R25	1-249-441-11	CARBON	100K	5%	1/4W
R26	1-249-417-11	CARBON	1K	5%	1/4W
R27	1-249-404-00	CARBON	82	5%	1/4W
R28	1-249-421-11	CARBON	2.2K	5%	1/4W
RV1	1-238-144-11	RES, VAR, CARBON 5K (VOLUME)			
S1	1-572-004-11	SWITCH, PUSH (POWER)			
SP	1-544-244-11	SPEAKER			
	⚠.1-465-346-11	(AEP)....ADAPTOR, AC			
	⚠.1-465-347-11	(Canadian)....ADAPTOR, AC			
	⚠.1-465-348-11	(US)....ADAPTOR, AC			
	⚠.1-465-361-11	(E)....ADAPTOR, AC			
	⚠.1-506-409-11	(E)....ADAPTOR, CONVERSION			
	1-566-410-21	ADAPTOR, PLUG			
	2-129-637-01	STOPPER			
	*2-141-226-01	CUSHION (UPPER)			
	*2-141-227-01	CUSHION (LOWER)			
	*2-141-229-01	INDIVIDUAL CARTON			
	*2-141-230-01	(US, Canadian, AEP)....CUSHION, SPACER			
	*2-141-231-01	(E)....CUSHION, ADAPTOR			
	*3-704-281-01	BAG, PROTECTION (STANDARD)			
	3-751-376-11	(Canadian, AEP, E)....MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, PORTUGUESE)			
	3-751-376-21	(US)....MANUAL, INSTRUCTION (ENGLISH)			

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